CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022

Date: 01.12.2021

TEST REPORT ON CEMENT

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : October-2021

Date of Testing 29.11.2021 to 01.12.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022

Date 01.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing 01.12.2021

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	13.6	1.36	1.36	98.6	95-100
2.36	15	1.50	2.86	97.1	95-100
1.18	34	3.40	6.26	93.7	90-100
600 Micron	68	6.80	13.06	86.9	80-100
300 Micron	246	24.60	37.66	62.3	20-65
150 Micron	499	49.90	87.56	12.4	0-15

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ.13. ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022 Date 01.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing 01.12.2021

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15.5	1.55	1.55	98.5	90-100
1.18	32	3.20	4.75	95.3	70-100
600 Micron	76	7.60	12.35	87.7	40-100
300 Micron	236	23.60	35.95	64.1	5-70
150 Micron	555	55.50	91.45	8.6	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022 Date 01.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing 01.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	69	6.90	6.90	93.1	90-100
2.36	112	11.20	18.10	81.9	75-100
1.18	158	15.80	33.90	66.1	55-90
600 Micron	220	22.00	55.90	44.1	35-59
300 Micron	175	17.50	73.40	26.6	8-30
150 Micron	170	17.00	90.40	9.6	0-10

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022

Date 01.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing 01.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	199	1.33	1.33	98.67	95-100
20	8377	55.85	57.17	42.83	30-70
10	3001	20.01	77.18	22.82	10-35
4.75	2788	18.59	95.77	4.23	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022 Date: 20.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರು
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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2021	20.12.2021	8.128	343.8	15.28
2	13.12.2021	20.12.2021	8.101	360.1	16.00
3	13.12.2021	20.12.2021	8.028	368.9	16.40

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Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022 Date: 20.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.12.2021	20.12.2021	8.111	348.4	15.48
2	13.12.2021	20.12.2021	8.019	356.9	15.86
3	13.12.2021	20.12.2021	8.085	368.7	16.39

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022

Date: 20.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/ mm^2)
1	13.12.2021	20.12.2021	8.022	349.8	15.55
2	13.12.2021	20.12.2021	8.068	359.4	15.97
3	13.12.2021	20.12.2021	8.182	369.9	16.44

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022 Date: 11.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2022	11.03.2022	8.029	713.2	31.70
2	11.02.2022	11.03.2022	8.097	702.8	31.24
3	11.02.2022	11.03.2022	8.043	724.9	32.22

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/13/2021-2022 Date 29.01.2022

ATTERBERG LIMITS TEST FOR WMM

lient : **Assistance Executive Engineer,** Shettyhalli Sub- Division, BBMP,Bangalore.

gency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work :Improvements to Roads at 1st, 2nd, 3rd, 4th cross 1st main road Kalyana nagara, 15th C cross Prashanth nagara and surrounding area in ward no 13 Shettyhalli Sub Division, BBMP, Bangalore.

AE-13

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

IS Code: IS 2720(Part 5):1985

Date of Testing 27.01.2022 to 29.01.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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